

Claims

[c1] What is claimed is:

1. A support stand comprising:

at least a H-beam to support an optic axis between operating machines of an exposure machine and subsidiary machines of the exposure machine;

at least a supporting element set on a first part of the H-beam;

a signal emitter set on a second part of the H-beam; and
a signal receiver set on a third part of the H-beam.

[c2] 2. The support stand of claim 1, wherein the signal receiver functions with the signal emitter to detect deformation experienced by the support stand to detect the phenomenon of optic axis shift.

[c3] 3. The support stand of claim 1 further comprising a control unit linked with the signal receiver for sending out a warning signal when the signal receiver does not receive the signal from the signal emitter.

[c4] 4. The support stand of claim 1, wherein the signal emitter and the signal receiver are set on opposite side of the H-beam respectively.

- [c5] 5. The support stand of claim 1 further comprising at least a coupling mechanism to fix the optic axis on the H-beam.
- [c6] 6. The support stand of claim 5 further comprising at least a fix board for connecting with the coupling mechanism to fix and support the optic axis.
- [c7] 7. The support stand of claim 6, wherein the fix board comprises a plurality of holes and the coupling mechanism is capable of being fixed on the fix board by connecting with one or more of the holes.
- [c8] 8. The support stand of claim 1, wherein the supporting element is set on the bottom of the H-beam and connected with the ground of the structure.
- [c9] 9. The support stand of claim 1 further comprising at least a fix unit for assembling the supporting element to fix the H-beam on the ground of a first floor.
- [c10] 10. The support stand of claim 9, wherein the fix unit is rivets or screws.
- [c11] 11. The support stand of claim 1, wherein the supporting element is an angle support base.
- [c12] 12. A transfer pipeline support stand comprising:

at least two H-beams;
a plurality of supporting elements set on the end of H-beam to fix the H-beams;
a signal emitter set on a first part of the H-beams;
a signal receiver functioning with the signal emitter set on a second part of the H-beams;
at least a fix board to connect the H-beams; and
at least a coupling mechanism set on the fix board to fix and support a transferring pipeline.

- [c13] 13. The support stand of claim 12, wherein the signal emitter and the signal receiver are set on opposite sides of the H-beams respectively.
- [c14] 14. The support stand of claim 12 further comprising a control unit linked with signal receiver for sending out a warning signal when the signal receiver does not receive the signal from the signal emitter.
- [c15] 15. The support stand of claim 12, wherein the fix board comprises a plurality of holes and the coupling mechanism is capable of being fixed on the fix board by connecting with one or more of the holes.
- [c16] 16. The support stand of claim 12, wherein the supporting element is set on the bottom of the H-beams and connected with the ground of the structure.

- [c17] 17. The support stand of claim 12 further comprising at least a fix unit for assembling the supporting element to fix the H-beams on the ground of a first floor.
- [c18] 18. The support stand of claim 17, wherein the fix unit is rivets or screws.
- [c19] 19. The support stand of claim 12, wherein the signal emitter and the signal receiver are set on different H-beams.
- [c20] 20. The support stand of claim 12, wherein the supporting element is an angle support base.